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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/798,447	03/12/2004	Woo Young Lee	300602004500 5276		
25227	7590 10/06/2005		EXAMINER		
MORRISON & FOERSTER LLP			PICARDAT, KEVIN M		
SUITE 300	SBOULEVARD		ART UNIT PAPER NUMBER		
MCLEAN, V	A 22102		2822		
			DATE MAILED: 10/06/2005	DATE MAILED: 10/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Comments	10/798,447	LEE ET AL.	(ham)				
Office Action Summary	Examiner	Art Unit	10/				
	Kevin M. Picardat	2822					
 The MAILING DATE of this communication app Period for Reply 	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nety filed the mailing date of this c D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 09 No	ovember 2004.						
	action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•=	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	·						
·· _							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on 12 March 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 							
· · · · · · · · · · · · · · · · · · ·	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	•	d in this National	Stage				
application from the International Bureau	, ,,						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11-9-04.	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ite)-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Yang et al. US 6,358,392.

Yang et al. discloses a method of forming a Bi film using electrodeposition including using depositing processes having the claimed ranges to form the Bi film having the claimed characteristics (see figs. 1-2 and related text).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al. as applied to claims 1-9 above, and further in view of Flatte et al. US 6,919,213.

Yang et al. teaches as stated above.

However, Yang et al. does not teach the specific devices which can be made by the Bi film, only that it can be used in MR devices.

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Flatte et al. teaches that MR devices can be spin transistors.

Therefore it would have been obvious to one of ordinary skill in the art to use the Bi film formed by Yang et al. to form the spin transistor of Flatte et al. because the Bi film was designed to be used in MR devices such as those taught in Flatte et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Picardat whose telephone number is 571-272-1841. The examiner can normally be reached on Monday-Thursday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Kevin M. Picardat **Primary Examiner**

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